

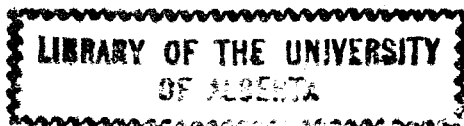
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Local Board  
of Health  
Annual Report  
1944 23 '45

# *Report*

of the

## *Local Board of Health*



CITY OF EDMONTON

ALBERTA

1944



# BOARD OF HEALTH, 1944

Ald. H. D. Ainlay, Chairman

Dr. E. A. Hay Roe                      Ald. R. W. Hamilton                      Dr. R. M. Shaw

Dr. G. A. Gemeroy, Edmonton Public School Board

Mr. J. A. Gallant, Separate School Board

## EX-OFFICIO MEMBERS

Mayor J. W. Fry

Dr. G. M. Little, M.O.H.                      Mr. A. W. Haddow, City Engineer

Catharine R. Rose, Secretary

# 1945

Dr. E. A. Hay Roe, Chairman

Dr. R. M. Shaw                      Ald. H. D. Ainlay                      Ald. C. E. Gariepy

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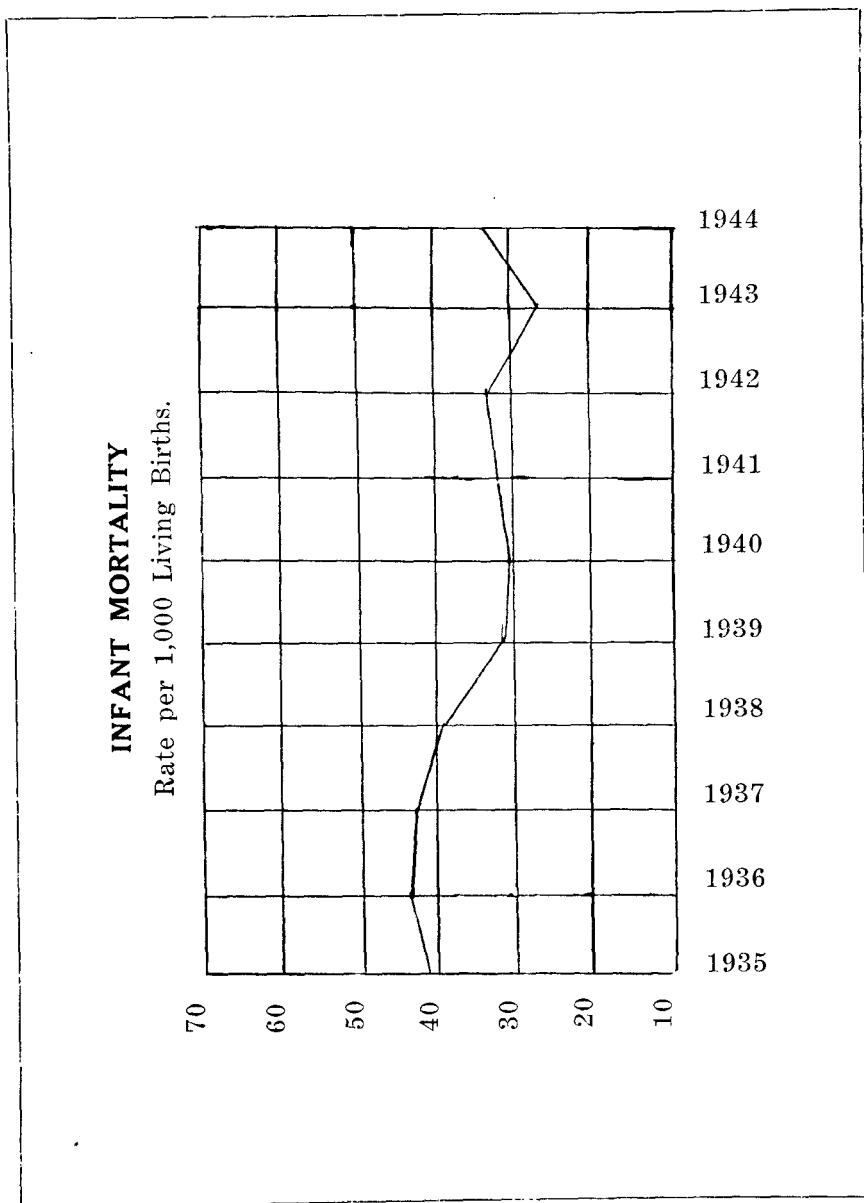
Catharine R. Rose, Secretary

## STAFF:

Medical Officer of Health.....	Dr. G. M. Little, D.P.H.
Secretary.....	Miss C. R. Rose
Chief Health Inspector.....	William R. Graham
Health Inspector.....	John H. Blackburn
Health Inspector.....	Arthur P. Methuen
Health Inspector.....	John D. Williams
Health Inspector.....	Ian D. F. Shaw
Quarantine Officer.....	Robert T. Anderson
Chief Food Inspector.....	Dr. D. M. Morrison, V.S.
Dairy Supervisor.....	Cyril Ellinger
Chemist and Milk Inspector.....	Harry C. Graham, B.A.
Public Health Nurse (Sr.).....	Miss M. Griffith, R.N.
Public Health Nurse.....	Miss S. C. Christensen, R.N.
Clerk.....	Miss K. D. Derbyshire
Stenographer.....	Mrs. J. Boychuk
Stenographer.....	Miss S. Milne
Jr. Inspector.....	Harry G. Chase
Jr. Inspector.....	George B. Hill

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## Annual Report of Medical Officer of Health

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Chairman and Members,  
Local Board of Health,  
City of Edmonton.

Gentlemen:

Herewith is submitted a report of the activities of the Board during 1944, and a summary of the work of certain co-operating agencies.

### Birth Rate:

The birth rate which increased from the 1936 low point of 16.8 per thousand population to a high point of 23.1 per thousand in 1943, showed a slight decrease to 22.6 per thousand in 1944.

### Death Rate:

The general death rate showed a slight decrease from that of 1943. Heart disease remained the chief cause of death, with cancer second in importance. There was no significant change in the death rate from these diseases.

Deaths from external causes showed a substantial decrease. Nine of the forty deaths from this cause, or nearly one quarter, were due to suicide, and the same number to automobile accidents.

### Communicable Diseases:

In spite of the many still crowded living quarters in the City, we have remained free from any devastating disease epidemic. Under these circumstances, however, our margin of safety is exceedingly narrow. Even with the greatest vigilance in prevention, and the very good co-operation from mothers in having children immunized against the more serious diseases, it is obvious that Providence has treated us kindly in this respect.

In common with the rest of our country, we experienced an increase in scarlet fever during 1944. The long period of quarantine in this disease creates a demand for hospital isolation on the grounds of economy, convenience and safety. As in the previous year, we found our isolation hospital facilities inadequate for the growing needs of the City. At one time the homes of twenty-six citizens were quarantined for scarlet fever because the cases could not be accommodated in the hospital. This situation also proved a source of many secondary cases. During such periods it was impossible to admit infectious cases from the surrounding country.

During December we arranged accommodation for the tuberculosis X-ray survey by the provincial tuberculosis service, assisted by the Kinsmen Club. Such a survey often permits early diagnosis at the time when a cure is assured. It also identifies many other conditions besides tuberculosis. It is indeed a careless citizen who fails to grasp this opportunity.

Seventeen thousand, four hundred immunization procedures were carried out on 4,600 children by our inoculation clinic.

### Child Welfare:

The exceptionally low infant mortality rate of 1943 was not maintained in 1944. However, the rate of 33.5 per thousand living births attained compares favorably with other provincial and dominion rates. The greatest

single cause of infant deaths was the increasing number born prematurely. That greater caution be exercised by expectant mothers, and that they seek close supervision by their physician during those pre-natal months, will do much toward saving these babies.

Early in 1944 the provincial government undertook payment for hospitalization of maternity cases. This adds little of protective value, however, because during the past three years more than 99% of our mothers have been confined in hospital.

The Child Welfare Clinic, operated in co-operation with the Provincial Department of Health, again demonstrated an increasing value to the babies and pre-school children of the City and surrounding country.

**Sanitation:**

Substitution of lower grade materials and workmanship in many manufactured foodstuffs has added notably to our problems of sanitary supervision.

Inspection of fresh meat shows a continued increase in the percentage of tuberculous pork. This is the greatest single cause of condemnation.

Difficulty of obtaining sanitary appliances and workmen in connection with plumbing is still a major problem.

Essential supervision of milk and water supplies has been well maintained, and no case of disease was reported from either of these sources.

**General:**

A clean, healthy and beautiful city is desirable to most of our citizens. To attain this objective, with our increasing density of population, we must be prepared to relegate the keeping of cows, hogs, and larger flocks of poultry to the outer and more sparsely settled areas. It demands that the safety and comfort of the neighbors be given precedence over the convenience of the occasional individual who wishes to keep livestock.

An increasing co-ordination of effort by various departments of the civic service has facilitated our work.

We are grateful to several branches of the Provincial Health Department, and particularly the Provincial Laboratory, for advice and service during the year.

Respectfully submitted,

G. M. LITTLE,

Medical Officer of Health.

**EXPENDITURE**

	1944	1943
1. Salaries .....	\$ 36,401.83	\$ 33,249.76
2. Supplies .....	1,029.15	1,045.33
3. Transportation .....	5,295.58	4,677.27
4/6. Telephones, Sundries and Uniforms.....	1,187.24	747.21
7. Pensions .....	2,501.24	2,427.20
(Bathhouse included in a/c's 1 and 2)		
	<u>\$ 46,415.76</u>	<u>\$ 42,146.67</u>

**REVENUE**

Permits	\$ 862.75	
Meat Inspection	1,094.10	
License Department	1,500.00	
	<u>\$3,456.85</u>	<u>3,456.85</u>
		<u>2,208.65</u>
	<u>\$ 42,958.91</u>	<u>\$ 39,938.02</u>

**EXPENDITURE—CLASSIFIED—1945**

	Administration	Communicable Disease	Dairy Inspection	Food Inspection	Laboratory Service	Public Health Nursing	Sanitation	Vital Statistics	Bath House	TOTALS
Salaries.....	\$ 7,734.56	\$3,489.35	\$2,490.36	\$2,782.59	\$2,629.96	\$3,351.04	\$13,068.22	\$ 608.85	\$ 246.90	\$36,401.83
Supplies.....	657.82	135.11	7.20		87.37	14.85	9.92	17.82	99.06	1,029.15
Transportation....	481.92	1,143.08	812.47	190.00	513.27	405.26	1,749.58			5,295.58
Telephones.....	109.56	65.76	18.00	17.76	20.64	17.88	82.20			331.80
Sundries.....	361.22	106.62	2.55	50.72	55.65	79.55	59.20			715.51
Uniforms.....						12.00	127.93			139.93
Pensions.....	2,501.96									2,501.96
	\$11,847.04	\$4,939.92	\$3,330.58	\$3,041.07	\$3,306.89	\$3,880.58	\$15,097.05	\$ 626.67	\$ 345.96	\$46,415.16
	25.5	10.6	7.2	6.6	7.1	8.4	32.5	1.3	.8	100%

**SUMMARY OF STATISTICS**

Area of City 26,778 acres, including 1,000 acres of water and 2,147 acres in Parks.

	1944	1943	1942	1941	1940
Population.....	108,416	105,536	96,725	92,404	91,722
Persons per acre of land.....	4.0	3.9	3.8	3.6	3.5
Cost per capita.....	.39	.38	.42	.43	.41
School enrolment.....	17,623	17,337	17,315	17,563	17,918
Natural increase of population.....	1,622	1,629	1,260	1,083	988
Births, excluding stillbirths.....	2,447	2,443	1,972	1,805	1,727
Rate per 1,000 population.....	22.6	23.1	20.3	19.9	19.2
Stillbirths.....	39	33	30	28	27
Rate per 1,000 births.....	15.9	13.2	19.3	15.5	15.6
Deaths, excluding stillbirths.....	825	814	712	722	739
Rate per 1,000 population.....	7.5	7.7	7.3	7.8	8.2
Deaths under 1 year of age.....	82	62	68	58	53
Infant mortality rate, 1,000 living births.....	33.5	25.4	34.5	32.1	30.6
Maternal deaths.....	3	4	1	3	5
Maternal mortality per 1,000 births.....	1.25	1.63	.52	1.66	2.8
Marriages.....	1,895	1,862	2,234	1,995	2,085
Rate per 1,000 population.....	17.4	17.6	23.0	21.6	22.7
Non-resident births in city.....	1,839	1,640	1,590	1,425	1,388
Non-resident deaths in city.....	673	528	483	483	438
Non-resident deaths under 1 year.....	77	62	59	52	49

## VITAL STATISTICS .

## Births

	1944	1943
City Births .....	2,447	2,443
Male .....	1,255	1,229
Female .....	1,192	1,214
Attended by Physician .....	2,438	2,424
Attended by Nurse .....	6	13
Unattended .....	3	6
Double Births.....	26	45

Born in Institutions, 2,436 or 99.5% ; elsewhere, 11.

Maternal Parentage:	1944	1943
Canada.....	1,969 or 80.5%	2,008 or 82.1%
British Isles.....	182 or 7.4%	173 or 7.0%
Europe.....	127 or 5.2%	111 or 4.6%
U. S. A.....	163 or 6.7%	148 or 6.1%
Other Countries.....	6 or .2%	4 or .2%

## Stillbirths

	1944	1943
Total .....	41	33
Male .....	18	13
Female .....	23	20
Born in Institutions .....	41	33
Born elsewhere .....	---	---

Cause of Foetal Deaths:	1944	1943
Dystocia.....	27	19
Prematurity.....	3	4
Toxaemia of Pregnancy .....	3	4
Malformation .....	4	2
Placenta and Membranes .....	---	1
Other conditions.....	4	3

## Deaths

	1944	1943
City Deaths .....	825	814
Male .....	481	488
Female .....	344	326

## Racial Origin

	1944	1943
Canada.....	289 or 35.0%	287 or 35.3%
British Isles.....	320 or 38.8%	298 or 36.7%
Europe.....	137 or 16.6%	142 or 17.4%
U. S. A.....	57 or 6.9%	54 or 6.6%
Other Countries.....	22 or 2.7%	33 or 4.0%

## Infant Mortality

	1944	1943
City Deaths under 1 year of age.....	82	62
Male .....	43	31
Female .....	39	31
Infant Mortality Rate per 1,000 Living Births.....	33.5	25.4

Previous to this year, a baby born before 28 weeks gestation and which failed to survive, was not registered as a live birth. Now, any infant which has breathed following birth is registered as a live birth regardless of the period of gestation. This, obviously, increases our infant mortality and reduces the number previously registered as stillbirths.







## INFANT MORTALITY—1944

## BY SEASON

## BY AGE

	TOTAL	January	February	March	April	May	June	July	August	September	October	November	December	1st Day	1st Week	2nd Week	3rd Week	4th Week	Total Under 1 Month	1-3 Months	4-6 Months	7-9 Months	10-12 Months
6—Cerebrospinal Meningitis (Meningococic)	2	1							1	1									1	1	1	1	
9—Whooping Cough	2	1																	1	1	1	1	
83b—Influenza without respiratory complications	2	1										1							1	1	2		
84a—Mental Deficiency	1								1										1	1			
106b—Chronic bronchitis	1	1																				1	
107—Bronchopneumonia	7	1		1	1				1	1	2						2		2	3		2	
109—Pneumonia (unspecified)	1												1					1	1				
115c—Diseases of Pharynx and Tonsils	1							1															
119a—Diarrhea and Enteritis	10		1	1	2			1	2	1	2						1	1	1	7	2		1
122b—Intestinal Obstruction	1			1																			
122a—Hernia	1					1														1			
129—Peritonitis (cause not stated)	1																						
157a—Congenital Hydrocephalus	1			1															1				
157b—Spina Bifida	1																				1		
157c—Congenital Malformations of Heart	2				1				1				1		1				1	1			
157g—Congenital Malformation of Digestive System	2												1		1				1	1			
157m—Other and unspecified Congenital Malformations	1												1		1								
158—Congenital Debility (cause not stated)	1			1																1			
159—Prematurity	2				1														2				
160a—Intrauterine or Spinal Haemorrhage	31		2	3	1	1	3	2	11	3	1	2	2	18	6	3	2	1	30	1			
160b—Other Intracranial or Spinal Injuries	4				2								1	2	2								
161c—Other Specified Diseases peculiar to first year	2					1				1				1		1			2				
182—Accidental mechanical suffocation	4				1					1	2			3	1				4				
196d—Obstruction, suffocation or puncture by ingested objects	1											1									1		
TOTALS	82	5	3	10	9	4	4	4	14	10	6	5	8	25	11	8	3	3	50	18	9	5	

## PRINCIPAL CAUSES OF DEATHS—1944

		1944				1943			
		Male	Female	Total	% of Total Deaths	Rate per 100M Population	Total	% of Total Deaths	Rate per 100M Population
90—95	Diseases of the heart.....	134	65	199	24.1	183.5	202	24.8	191.4
45—55	Cancer and other malignant tumors.....	68	64	132	16.0	121.7	121	15.0	114.7
83	Intracranial lesions of vascular origin.....	46	38	84	10.1	77.5	74	9.0	70.4
130—132	Nephritis.....	24	14	48	5.7	41.2	34	4.1	32.2
157—161	Congenital debility, premature birth, and diseases peculiar to first year of life, congenital malformations.....	27	28	45	5.3	41.5	39	4.8	36.9
107—109	Pneumonia and broncho-pneumonia.....	25	16	41	4.9	37.8	47	5.8	44.5
163—198	External causes.....	31	9	40	4.8	36.8	51	6.2	48.3
13—22	Tuberculosis, all forms.....	15	11	26	3.1	23.9	20	2.0	18.9
61	Diabetes mellitus.....	8	11	19	2.3	17.5	14	1.7	13.2
119—120	Diarrhea, enteritis.....	8	8	16	1.9	15.5			
TOTALS.....		386	264	650	78.2		617	75.6	

## MORTALITY FROM HEART DISEASE

Year	Total Deaths	Deaths From Heart Disease	Percentage of Total Deaths	Rate per 100M Population
1944.....	825	199	24.1	183.5
1943.....	814	202	24.8	191.4
1942.....	712	197	27.7	203.0
1941.....	722	166	23.0	179.4
1940.....	729	141	18.8	156.6

There were 199 deaths (134 males and 65 females) from heart disease, showing a decrease in the rate per 100M population of 8.1 over 1943.

## MORTALITY FROM CANCER

Year	Total Deaths	Deaths From Cancer	Percentage of Total Deaths	Rate per 100M Population
1944.....	825	132	16.0	121.7
1943.....	814	121	15.0	114.7
1942.....	712	111	15.6	114.4
1941.....	722	105	14.8	113.5
1940.....	729	124	16.7	138.0

There were 132 deaths from Cancer (68 males and 64 females) showing an increase of 7.0 in the rate per 100M population over 1943.

## MORTALITY FROM INTRACRANIAL LESIONS OF VACULAR ORIGIN

Year	Total Deaths	Deaths From This Cause	Percentage of Total Deaths	Rate per 100M Population
1944.....	825	84	10.1	77.5
1943.....	814	74	9.0	70.4
1942.....	712	62	8.7	63.9
1941.....	722	72	10.0	77.8

There were 84 deaths (46 males and 38 females) from intracranial lesions of vascular origin showing an increase of 7.1 in the rate per 100M population over 1943.

**MORTALITY FROM PNEUMONIA**

Year	Total Deaths	Deaths From Pneumonia	Percentage of Total Deaths	Rate per 100M Population
1944.....	825	41	4.9	37.8
1943.....	814	47	5.8	44.5
1942.....	712	32	4.6	33.0
1941.....	722	31	4.3	33.5
1940.....	729	53	7.1	59.0

There were 41 deaths (25 males and 15 females) from Pneumonia (all forms) a decrease of 6.7 in the rate per 100M population. Of the 41 deaths, 9 were due to Lobar Pneumonia (4 males and 5 females) and none were under one year of age.

**MORTALITY FROM TUBERCULOSIS**

Year	Total Deaths	Deaths From Tuberculosis	Percentage of Total Deaths	Rate per 100M Population
1944.....	825	26	3.1	23.9
1943.....	814	20	2.4	18.9
1942.....	712	24	3.3	24.7
1941.....	722	26	3.6	28.1
1940.....	729	18	2.5	20.0

There were 26 deaths from Tuberculosis (all forms), (19 males and 11 females), showing an increase of 5.0 in the rate per 100M population over 1943.

**MORTALITY FROM EXTERNAL CAUSES**

Year	Total Deaths	Deaths From External Causes	Male	Female	Suicide	Homicide	Automobile Accidents	Other Accidents	Percentage of Deaths	Rate Per 100M Population
1944.....	825	40	31	9	9	....	9	22	4.8	36.8
1943.....	814	51	40	11	5	....	13	33	6.2	48.3
1942.....	712	38	27	11	4	1	7	26	5.3	39.0
1941.....	722	53	37	16	10	1	10	32	6.9	57.3
1940.....	729	51	37	14	11	4	11	26	6.9	56.7

**ISOLATION HOSPITAL**

Nine hundred and five patients were admitted, 84 were carried over from 1943 making a total of 989. There were 912 discharged, 20 died and 77 remained in the hospital at the end of the year.

The diseases hospitalized included:

Scarlet Fever .....	726	Poliomyelitis .....	8
Diphtheria .....	11	Poliomyelitis suspects .....	8
Diphtheria Carriers .....	5	Erysipelas .....	14
Meningitis (Meningococcic) .....	3	Measles .....	11
Tuberculosis .....	42	Chickenpox .....	17

The deaths included:

Tuberculosis .....	10	Diphtheria .....	....
Scarlet Fever .....	4	Whooping Cough .....	1
		Other conditions .....	5

**SCHOOL MEDICAL SERVICES**

	Public School Board	R.C. Separate School Board
Complete examinations .....	3732	1006
Number reported with defects.....	1412	197
Number reported without defects.....	2320	809
Parents present at examinations.....	2858	459
Homes visited by nurses.....	1027	74
Talks to classes.....	517	....

## IMMUNIZATION

1944	Smallpox	Diphtheria	Scarlet Fever	Whooping Cough	Typhoid Fever	Schick Test	Dick Test
Board of Health (cases).....	857	1346	1205	1484	47	109	103
Board of Health (doses).....	857	4156	6122	4938	130	109	128
Public School Board (cases).....	2848	3584	.....	.....	.....	.....	.....
Public School Board (doses).....	2848	5153	.....	.....	.....	.....	.....
Separate School Board (cases).....	240	191	.....	.....	.....	.....	.....
Separate School Board (doses).....	240	370	.....	.....	.....	.....	.....
Total Cases .....	3945	5121	1205	1484	47	109	128
Materials distributed to Private Physicians .....	412	1062	49	695	6	3	1
1943							
Board of Health (cases).....	549	3066	1248	1998	26	203	103
Board of Health (doses).....	549	8414	5371	5059	76	203	103
Public School Board (cases).....	2326	.....	.....	.....	.....	.....	.....
Public School Board (doses).....	5679	.....	.....	.....	.....	.....	.....
Separate School Board (cases).....	240	197	.....	.....	.....	.....	.....
Separate School Board (doses).....	240	591	.....	.....	.....	.....	.....
Total Cases .....	789	5589	1248	1998	26	203	103
Materials distributed to Private Physicians .....	708	636	84	227	6	20	675

## COMMUNICABLE DISEASE REPORT—1940-1944

	1944		1943		1942		1941		1940	
	C	D	C	D	C	D	C	D	C	D
Actinomycosis.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....
Chickenpox.....	1793	.....	745	.....	726	.....	1039	.....	1634	.....
Diphtheria.....	5	.....	11	1	7	2	4	.....	16	5
Diphtheria carriers.....	16	.....	12	.....	4	.....	1	.....	8	.....
Dysentery.....	.....	.....	2	.....	.....	.....	.....	.....	1	.....
Encephalitis Lethargica.....	.....	.....	3	.....	.....	.....	.....	.....	.....	1
Erysipelas.....	17	.....	18	.....	17	.....	31	.....	26	1
Influenza.....	.....	6	.....	11	.....	8	.....	9	.....	25
Measles.....	2420	.....	1926	1	673	.....	1631	.....	2995	1
Meningitis (Meningococci).....	3	2	9	2	3	1	16	1	6	1
Mononucleosis (Infectious).....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mumps.....	397	.....	1076	.....	2006	.....	499	.....	199	.....
Paratyphoid Fever.....	1	.....	1	.....	.....	.....	4	1	2	.....
Pneumonia (Lobar).....	9	.....	11	.....	6	.....	3	7	6	19
Poliomyelitis.....	5	.....	7	.....	.....	.....	15	.....	.....	2
Puerperal Septicaemia.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....
Rubella.....	77	.....	330	.....	653	.....	3266	.....	20	.....
Scarlet Fever.....	1010	1	513	2	512	.....	198	.....	151	.....
Septic Sore Throat.....	4	.....	8	.....	24	.....	23	.....	54	.....
Tuberculosis (pulmonary).....	69	20	133	15	68	17	47	23	48	10
Tuberculosis (other forms).....	2	6	4	5	6	7	3	3	5	8
Typhoid Fever.....	.....	.....	1	.....	.....	.....	3	1	2	.....
Undulant Fever.....	1	.....	.....	.....	.....	.....	2	.....	2	.....
Vincent's Angina.....	20	.....	1	.....	1	.....	.....	.....	.....	.....
Whooping Cough.....	222	2	856	2	356	1	166	.....	483	1
Veneral Disease.....	4	.....	3	.....	.....	.....	.....	.....	.....	.....
G.C. Vaginitis.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....
G.C. Ophthalmia.....	308	.....	209	.....	155	.....	218	.....	238	.....
Syphilis.....	74	6	38	7	74	5	79	8	39	1
	6449	53	5908	57	5287	47	7248	54	5945	76
Morbidity per 1,000 population.....	60.3	.....	56.0	.....	54.5	.....	78.3	.....	66.8	.....

C—Cases.

D—Deaths.

During 1944 reportable disease was responsible for 53 or 6.4% of the 825 city deaths. Of the 45 adult deaths from communicable disease, 26 were due to Tuberculosis, and 6 to Syphilis.

## COMMUNICABLE DISEASE BY AGE—1944

	City Cases	Male	Female	Under 1	1/4	5/14	15, 19	Over 20	Not Stated	Armed Forces	Outside Cases
Actinomycosis.....											
Chickenpox.....	1793	911	882	57	439	1142	58	14	20	33	2
Diphtheria.....	5	3	2		1		2	1		1	7
Diphtheria carriers.....	16	7	9		1	7	1	6		1	11
Erysipelas.....	17	11	6			1		14	1	1	5
Infectious Mononucleosis.....	1	1				1					
Measles.....	2420	1151	1269	91	962	1138	90	88	7	44	35
Meningitis (Meningococci).....	3	2	3	2	1						3
Mumps.....	397	203	194	6	58	242	16	31	7	37	5
Paratyphoid.....	1	1									2
Peritonitis.....	1	3	2		3		2				1
Rubella.....	77	34	43	2	10	34	5	13	1	12	7
Scarlet Fever.....	1010	538	472	3	165	483	83	131	12	133	57
Septic Sore Throat.....	4	1	3					2	1		
Tuberculosis (pulmonary).....	63	42	27			3	3	58	2		16
Tuberculosis (other forms).....	2	2					1			1	
Tularaemia.....											2
Vincent's Angina.....	20	17	3		1	2	1		1	15	7
Whooping Cough.....	222	101	121	26	111	83		2			1
Undulant Fever.....	1	1						1			
<b>Veneral Disease</b>											
Gonorrhoea.....	308	123	185			1	88	219			1
Syphilis.....	74	46	28	1			9	64			
Vaginitis.....	1		4		1	3					3
<b>TOTALS.....</b>	<b>6449</b>	<b>3196</b>	<b>3253</b>	<b>188</b>	<b>1753</b>	<b>3140</b>	<b>365</b>	<b>675</b>	<b>52</b>	<b>278</b>	<b>174</b>
<b>DEATHS:</b>											
Influenza.....	6	2	4	2	1			3			
Meningitis (meningococci).....	2	1	1	2							
Pneumonia (lobar).....	9	4	5					9			
Puerperal Septicaemia.....	1	1	1					1			
Scarlet Fever.....	1	1		1							
Syphilis.....	6	6						6			
Tuberculosis (pulmonary).....	20	12	8				1	19			
Tuberculosis (other forms).....	6	3	3					6			
Whooping Cough.....	3		3	3							
<b>TOTALS.....</b>	<b>54</b>	<b>30</b>	<b>24</b>	<b>7</b>	<b>2</b>		<b>1</b>	<b>44</b>			

## COMMUNICABLE DISEASE BY SEASON AND SEX—1944

	City Cases	Male	Female	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Outside Dec. Cases
Actinomycosis	1793	911	882	360	342	265	132	123	166	98	31	29	31	38	118	2
Chickenpox	5	3	2	1	1	2	1	1	1	2	1	1	1	1	1	8
Diphtheria carriers	16	7	9	11	1	1	1	1	1	1	1	1	1	1	1	7
Diphtheria carriers	17	11	6	2	1	1	1	1	1	1	1	1	1	1	1	11
Erysipelas	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	5
Infectious Mononucleosis	2420	1151	1269	577	759	598	324	97	21	10	15	4	3	2	10	35
Measles	3	3	3	1	1	1	1	1	1	1	1	1	1	1	1	1
Meningitis (Meningococcic)	397	203	194	8	15	29	20	37	86	54	38	21	9	32	48	5
Mumps	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
Paratyphoid	5	3	2	1	1	1	1	1	1	1	1	1	1	1	1	7
Pellomylitis	77	34	43	11	12	12	11	8	8	8	4	1	1	1	1	1
Rubella	1010	538	472	61	92	175	188	152	102	48	35	21	40	43	53	57
Scarlet Fever	4	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1
Septic Sore Throat	69	42	27	4	7	4	3	1	10	6	10	8	5	4	7	16
Tuberculosis (pulmonary)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Tuberculosis (other forms)	20	17	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Tularaemia	20	17	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Vincent's Angina	222	101	121	18	22	9	20	8	4	9	16	26	42	17	31	1
Whooping Cough	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Undulant Fever	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<b>Veneral Disease</b>																
Gonorrhoea	308	123	185	22	10	32	21	31	22	31	25	22	20	21	39	1
Syphilis	74	46	28	4	9	4	2	4	4	2	11	10	9	8	7	3
Vaginitis	4	4	4	1	1	1	1	1	1	1	1	1	1	1	1	1
<b>TOTALS</b>	6449	3196	3253	1080	1271	1136	723	463	427	277	193	149	178	234	318	174

## DEATHS:

Influenza	6	2	4	3	1	1	1	1	1	1	1	1	1	1	1	1
Meningitis (meningococcic)	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Pneumonia (lobar)	9	4	5	1	1	1	1	1	1	1	1	1	1	1	1	1
Puerperal Septicaemia	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Scarlet Fever	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Syphilis	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Tuberculosis (pulmonary)	20	12	8	2	1	1	1	1	1	1	1	1	1	1	1	1
Tuberculosis (other forms)	6	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Whooping Cough	3	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1
<b>TOTALS</b>	54	30	24	8	3	3	2	1	6	7	3	3	6	4	8	8



## TUBERCULOSIS CONTROL

Kinsmen's Club Service:	1944	1943
Total visits by nurse.....	3986	2763
Total visits to T. B. Cases.....	736	519
Visits to suspect cases.....	99	98
Visits to contact cases.....	2803	1936
Co-operative Visits .....	237	146

## Provincial Tuberculosis Division:

## Examinations—

Active cases .....	109	87
Suspects .....	29	91
Contact .....	370	413
Non-contact .....	785	732
Total .....	1155	1323
 Total Examinations .....	2056	1988
Total X-rays .....	1913	1919
 Tuberculin tests made .....	1268	938
Tuberculin tests, positive .....	435	453



## PUBLIC HEALTH NURSING

## Child Welfare

Owing to the increased attendance it was found necessary to hold clinics four afternoons a week instead of three—the clinics have all been well attended. This clinic is held in co-operation with the Provincial Department of Health.

	1944	1943	1942	1941	1940
Number of clinics held.....	200	150	101	83	101
Babies in attendance (under 2 years).....	6198	5649	4905	3783	4743
Pre-school in attendance.....	1158	1067	1146	972	1135
Total .....	7356	6716	6051	4755	5875
Average .....	37	45	60	49	58
 New cases admitted, babies.....	1378	1320	1119	899	866
New cases admitted, pre-school.....	262	240	61	202	156
Babies referred to family doctor.....	25	31	21	28	38
Pre-school referred to family doctor....	20	36	24	20	33
Re-admitted, babies .....	11				
Re-admitted, Pre-school .....	81				

Our thanks are due to Dr. Folinsbee, Dr. Newell and Dr. Collins for their untiring service throughout the year. Dr. Collins relieved during Dr. Folinsbee's illness.

Temporary service was given by the Victorian Order of Nurses and Miss DeRosier from the Relief Department for several months—to whom our thanks are due.

BSc. students were with us for observation and field work. Home Economic and Student Nurses from the Royal Alexandra Hospital attended for observation.

A large number of British war brides and American soldiers' wives have taken advantage of the service rendered, some reporting to the clinic the day after their arrival in the City. It was gratifying to note the excellent physical condition of the British babies in spite of adverse circumstances at birth.

One hundred and ninety-one out of town children were in attendance. Thirty-one letters regarding feedings were received and replied to, besides an increasing number of long distance phone calls regarding infant feeding being attended to.

Seventeen hundred and thirty-six new cases were added to our rolls, while 738 more cases were discharged from our rolls than in any previous year. Our enrolment is 232 higher than any other year.

Two thousand, three hundred and ninety-six home visits were made by the nurses. These visits were as follows: Babies, 1883; pre-school, 498; and pre-natal, 15.

#### Victorian Order of Nurses

	1944	1943	1942
Pre-natal visits .....	545	347	399
Obstetrical (nursing care) .....	19	87	77
Obstetrical (advice) .....	1147	1157	693
Newborn (nursing care) .....	666	743	453
Newborn (Health supervision) .....	1373	1287	857
Pre-natal clinics .....	49	46	49
Total attendance .....	982	658	500
Average attendance .....	20	14	10

## HEALTH INSPECTIONS

### INSPECTIONS:

	1944	1943
Dwellings .....	10,214	7,282
Hotels, lodging houses, apartment blocks .....	1,133	905
Schools, blocks, public buildings.....	68	200
Stores, business establishments .....	588	395
Food handling establishments .....	3,190	3,633
Garbage cans, etc.....	1,984	1,125
Streets, lanes, yards, dumps, etc.....	2,544	2,396
Miscellaneous .....	2,576	2,819
	<hr/> 22,297	<hr/> 18,755
Re-inspections .....	3,605	3,234
Visits assisting Quarantine Officer .....	2,069	471

### NOTICES:

Written .....	1,886	2,142
Verbal .....	4,974	6,607
Garbage .....	595	629
	<hr/> 7,455	<hr/> 9,378

### COMPLAINTS:

Received from the public.....	903	1,038
Justified .....	862	954
Received from other Departments.....	38	29
Referred to other Departments.....	111	151

The complaints were made up as follows:

Garbage, streets, lanes, etc.....	271	294
Vermin .....	219	183
Housing, plumbing and drainage.....	245	329
Food and drink.....	41	55
Miscellaneous .....	127	177

### LICENSES:

License applications investigated.....	2,304	1,728
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### PLUMBING:

Sewer and water notices issued.....	18	10
Sewer and water installed, buildings removed, etc.....	31	18
Extension of time granted.....	38	31
Plumbing permits issued.....	986	831
Plumbing permits issued for old buildings.....	35	37
Alterations to existing plumbing (fixtures).....	1,173	772
Privies eliminated through installation of plumbing.....	35	37

**DISINFESTING STATION:**

	1944	1943
Baths .....	4,129	4,121
Verminous .....	6	20
Scabies .....	315	344
Disinfested .....	321	364
No. of men washing clothing.....	2,846	2,874
Units washed .....	8,538	8,922
Articles sterilized for the Army.....	3,579	8,813

**SCAVENGING CLEAN-UP WORK:**

Refuse removed during Clean-up Week (cubic yards).....	3,546	4,760
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**ANIMALS, BARNS, STYES:**

Cow owners .....	481	502
Hog owners .....	151	172
Goat owners .....	56	71
Mink, fox ranch owners.....	58	55

**FOOD:**

Samples submitted to Provincial Laboratory.....	16	9
Foodstuffs condemned (lbs.).....	2,863	162

**WATER:**

Water samples taken.....	19	24
Negative .....	8	15
*Positive .....	14	4
*Suspicious .....	...	4
Wells chlorinated .....	11	7
Wells placarded .....	4	1
Ice samples .....	2	2

\*Wells condemned or further samples taken after chlorination.

**HOUSING:**

During the year there were 10,214 dwellings and 1,133 hotels, lodging houses, apartment blocks, etc., inspected for overcrowding, vermin and other insanitary conditions. Notices were issued where necessary.

**POISON GAS FUMIGATION:**

Hydrocyanic acid gas eliminated vermin from 322 dwellings and blocks. Inspections were made of all premises before and after fumigation, and the inhabitants warned regarding removal of all foodstuffs, etc.

**SOCIAL HYGIENE:**

There were 26 cases of venereal disease investigated by this department in 58 visits.

**ENFORCEMENT OF REGULATIONS:**

Prosecutions .....	1	1
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One cow keeper on the South Side was prosecuted for keeping more than two cows on his premises, without having first obtained a special permit from the Medical Officer of Health, contrary to By-law No. 9, Section No. 32. He was fined five dollars and costs.

## FOOD INSPECTION

## MEATS INSPECTED AND CONDEMNED

<b>Beef:</b>	1944	1943	1942
No. of carcasses inspected.....	3,206	3,754	2,327
Carcasses condemned .....	26	32	23
Portions condemned .....	293	343	247
Weight (lbs.) of carcasses and portions condemned.....	19,285	18,100	14,515
<b>Veal:</b>			
No. of carcasses inspected.....	2,137	2,141	1,373
Carcasses condemned .....	5	3	5
Portions condemned .....	55	41	22
Weight (lbs.) of carcasses and portions condemned.....	1,640	778	1,400
<b>Mutton:</b>			
No. of carcasses inspected.....	1,850	1,132	821
Carcasses condemned .....	17	6	2
Portions condemned .....	102	22	19
Weight (lbs.) of carcasses and portions condemned.....	1,130	380	141
<b>Pork:</b>			
No. of carcasses inspected.....	3,721	5,396	6,637
Carcasses condemned .....	57	85	83
Portions condemned .....	978	1,251	1,425
Weight (lbs.) of carcasses and portions condemned.....	22,710	31,545	35,735
<b>Totals:</b>			
No. of carcasses inspected.....	10,914	12,423	11,158
Carcasses condemned .....	105	126	113
Portions condemned .....	1,428	1,657	1,713
Weight (lbs.) of carcasses and portions condemned.....	44,765	50,803	51,791

## CARCASSES FOUND TO BE INFECTED WITH T.B.

<b>Beef:</b>			
Infected .....	8	19	10
Percent .....	.230	.506	.429
<b>Pork:</b>			
Infected .....	524	749	827
Percent .....	14.08	13.88	12.46

## CHIEF CAUSES OF CONDEMNATION, 1944

Beef:	Carcasses	Portions	Weight Lbs.
Abscess .....		104	1,190
Abscess multiple .....	1		300
Actinomycosis .....		67	1,320
Black Leg .....	1		400
Bruised .....	11	7	5,310
Decomposition .....		35	4,200
Improper Bleeding .....	1		450
Metritis .....	1		500
Mastitis .....	1		375
Pneumonia .....	4		1,500
Pleura-pneumonia .....	5		2,225
Tuberculosis .....	1	10	715
Miscellaneous (adhesions, contamination, parasites, jaundice, sour) .....		70	800
	26	293	19,285

**Veal:**

Abscess .....		17	175
Bruised .....	3	3	690
Haemorrhages .....	1		300
Parasites .....		31	295
Pneumonia .....	1		125
Miscellaneous (adhesions, tuberculosis, actinomycosis, jaundice) .....		4	55
	5	55	1,640

**Mutton:**

Abscess .....	3	1	180
Abscess multiple .....	7		440
Emaciation .....	5	6	235
Parasites .....		93	150
Miscellaneous (bruised, tuberculosis, pneumonia) .....	2	2	125
	17	102	1,130

**Pork:**

Abscess .....	2	6	615
Abscess multiple .....	12		2,300
Adhesions .....		50	730
Arthritis .....	10		1,345
Bruised .....	2	50	955
Contamination .....		121	2,040
Improper bleeding .....	1		450
Parasites .....		116	370
Peritonitis .....	1		200
Pneumonia .....	5	10	775
Pleura-pneumonia .....	2		325
Tuberculosis .....	17	624	11,540
Sexual odor .....	1		550
Miscellaneous (actinomycosis, anaemia, emaciation, hernia) .....	4	1	515
	57	978	22,710

**DISEASED ANIMALS**

	1944	1943	1942
Beef .....	238	304	200
Veal .....	48	40	24
Mutton .....	102	11	16
Pork .....	674	924	1,024
Total amount of meat condemned .....	44,765	50,803	51,791

**FOODSTUFFS CONDEMNED BY INSPECTORS**

Canned goods .....		4	3
Meat .....	61	12	41
Fruit and Vegetables .....	105		
Ice Cream .....		5	
Sundries .....	80	38	28
Damaged by Fire .....	2,424		27,067
Cheese .....			1,900
Candy .....			507
Poultry .....	193	103	
Total (lbs.) .....	2,863	51,488	81,795

## DAIRY INSPECTION

Certificates issued Producer-distributors, raw milk.....	22
Certificates issued Producer-shippers, milk.....	261
Certificates issued Producer-shippers, cream.....	32
Certificates issued Pasteurization Plants.....	5
Inspections of Producer-distributors' Dairies.....	132
Inspections of Producer-shippers' Dairies.....	1,013
Inspection of Pasteurization Plants.....	87
New Dairy Barns erected.....	9
Dairy Barns remodelled.....	6
New Milk Houses erected.....	11
Certificates suspended temporarily.....	41
Certificates suspended indefinitely.....	1
Applications for certificates of registration refused.....	
Certificates issued to retail distributors.....	336
Permits issued to cowkeepers in the city.....	562
Reduction tests, milk.....	12,149
Reduction tests, cream.....	
Sediment tests .....	843
Butterfat tests .....	919
Phosphatase tests .....	370
Bacterial plate counts, milk.....	773
Bacterial plate counts, ice cream.....	43
Chlorine tests at dairy farms.....	18
Dairy cattle privately tested for Bang's disease.....	561
Well water samples taken at dairy farms.....	
Milk cans condemned.....	
Written notices to dairy premises.....	279
Educational circulars to cream producer-shippers.....	
Prosecutions .....	

An article "Compliance with Milk Regulations," referring to difficulties and how they are surmounted in the Edmonton District, was written and appeared in the July issue of the "Alberta Health Worker." The article drew favourable comment from the Sanitary Engineering Division of the United States Public Health Service, Washington, D.C., who also stated that they intended to summarize the article for inclusion in their publication, "Public Health Engineering Abstracts."

Shortage of help on dairy farms and difficulties of transportation due to war conditions have added to the difficulty of maintaining the high standard of our milk supply. The same circumstances have prevented pasteurizing plants obtaining necessary milk-handling machinery, resulting in delay in processing the milk at the plants.

There has been a still further decrease in the number of our producer distributors. The retail samples taken, 851, was about the same as the previous year. Of these 572 were examined by the official plate count method. The number grading special (with counts of 15,000 or under) was 317 or 56.3% of the whole. Full details of the distribution of the results are given in the table. The nine samples whose counts were spoiled by the presence of "spreaders" are, of course, not counted in calculating the number in each class.

	Special	15,000/ 40,000	40,000/ 100,000	100,000/ 300,000	Over	Spreader	Total
January .....	25	9	10	1	2	.....	47
February .....	23	6	12	14	2	.....	57
March .....	27	13	9	4	1	1	55
April .....	33	6	9	3	.....	2	53
May .....	32	7	2	1	1	2	45
June .....	25	8	4	4	.....	1	42
July .....	34	10	8	3	5	1	61
August .....	35	5	6	5	.....	1	52
September .....	20	14	5	5	3	.....	47
October .....	6	10	7	2	.....	.....	25
November .....	32	6	6	.....	1	1	46
December .....	25	7	5	5	.....	.....	42
	317	101	83	47	15	9	572
Percentage .....	56.3	17.9	14.7	8.4	2.7		

These results may also be classified to show the number and percent in various groups.

	Special	%	15,000/ 40,000	%	40,000/ 100,000	%	100,000/ 300,000	%	Over	%	Spr.	Total
Raw Milk .....	102	37.6	64	23.6	61	22.5	34	12.6	10	3.7	5	276
Pasteurized .....	126	71.6	22	12.5	13	7.4	12	6.8	3	1.7	2	178
Jersey .....	57	81.4	8	11.4	4	5.7	.....	.....	1	1.4	2	72
Homogenized .....	32	69.6	7	15.2	5	10.8	1	2.2	1	2.2	.....	46
	317		101		83		47		15		9	572

It is well to remember in considering these results that repeat samples are run on all samples of 50,000 or over, so that the poorer results are liable to be doubled in the tabulation.

The methylene blue reduction test was run on all these 851 samples and of these 21 failed to grade number one under this test. These samples were also tested for butter fat and specific gravity and these results were used to calculate solids not fat. Sediment tests were also run and these were graded on an arbitrary scale used by this department for many years. All samples were tested for possible flavor defects. On the pasteurized milk phosphatase tests were run at least twice a month as a check for proper pasteurization. Pasteurization recording charts were received at this office for scrutiny and criticism.

As in previous years the biggest part of the work was in checking the raw milk as received at the various pasteurizing plants. Due to wartime restrictions on transportation and collection services the receiving time at the plants has become so extended as to entail protracted overtime for the completion of the tests. However, the regular weekly sampling of the milk of all producers for examination by the methylene blue reduction tests has been carried on. The number of producers under test has varied but has generally been about 250.

The total number of routine tests including retests was 10,718 and of these there were 1,039 or about 9.7% failed to make grade one. This is slightly higher than last year and considerably higher than most previous years.



Special samples were also run mostly to aid producers in locating trouble with their milk. Of 27 such tests 10 samples failed to grade as class one milk. Some of the samples were also tested by the Resazurin test, a newer test which is now gaining recognition.

Several mornings were spent at the plants checking up on the temperature of the milk as received and warning notices were sent to the producers whose milk was not properly cooled. The plants run their own tests for sediment on this milk but we ran a few check samples also.

Special samples of milk and cream were run for the Railway Purchasing Department and for the Army Service Corps Supply Depot. The military officials attach special significance to the test for colon bacillus as an indication of contamination subsequent to pasteurization, and we have been obliged to do considerable work in this line. Rinse samples were taken from cans and bottles, milk coolers and bottle fillers for bacteria and colon bacillus tests to check on any contamination from these sources. A summary of these activities is as follows:

**Tests:**

	Number	Average
Butterfat .....	852	3.80%
Solids not fat .....	852	8.74%
Sediment .....	816	9.13%
Special Creams .....	36	16.60%
Special Milks .....	84	3.60%
Chocolate Milks .....	86	24.20%
Phosphatase tests .....	303	

**Bacteria Counts:**

Special Creams .....	36—22 in special class
Special Milks .....	84—65 in special class
Chocolate Milk .....	86—47 in special class
Ice Cream .....	43— 3 in special class
Rinse Bottles .....	7

**Methylene Blue Tests:**

	Number	Under 5½ Hrs.
Producers Milk.....	10,728	1,039
Retail Samples .....	851	21
Special Tests .....	27	10

As in previous years general supervision has been given to the swimming pools, both municipal and private. Testing outfits and test solutions have been supplied and renewed as needed for the plant operators. Visits have been made to the pools weekly or as needed and tests made for chlorine content of the water and samples taken for bacteria count and tested for colon organisms. Advice was also given as required on the various operating problems about the pool and samples of chlorine content. The war time containers are not very satisfactory and the chemical deteriorates rather rapidly. Unfortunately the results of the bacteria counts both of the public and the privately owned pools have not been as good as we have been accustomed to obtain and more attention must be given them for the next year. One hundred and thirty-seven were counted from the city pools and 73 from the private ones.

Tap water samples have been examined for us almost every working day at the provincial laboratory. In all 294 samples were tested, of which eight were spoiled by the growth of spreaders. Six samples gave official plate counts of over 100. Control chlorine tests from the plant were regularly run on the water at our city offices uptown. Considerable trouble was encountered at the time of high water in June when we had what verged on flood conditions. Most of our spreaders occurred at this time. Unfortunately also, with this water with its high turbidity and high organic content, the standard methods for determining chlorine in the water proved quite useless and it was impossible to guarantee a safe chlorine residual. Happily such conditions only occur at very long intervals. As in previous years there has been the closest co-operation between our department and the water purification staff with constant exchange of our findings.

The usual complaints with regard to taste, odors, etc., were investigated during the year. Due partly to the use of wartime fixtures and repeated function of copper and iron, or brass and iron, and probably to a slight degree to our softening process, there has been a slight increase in complaints of corrosion especially in the winter months. We do not anticipate however, this problem will be at all serious.

Outside of occasional visits very little supervision was given to the sewage plants which have been carrying on quite satisfactorily.

